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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/442,868 11/18/99 LIN

W T0471-991180

EXAMINER

WM01/0913

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ART UNIT

PAPER NUMBER

2674

DATE MAILED:

09/13/01

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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

GM

# Office Action Summary

Application No.  
**09/442,868**

Applicant(s)  
**Walter C. Lin**

Examiner  
**Abbas Abdulsalam**

Group Art Unit  
**2674**



☐ Responsive to communication(s) filed on \_\_\_\_\_.

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

## Disposition of Claims

☒ Claim(s) 1-32 is/are pending in the application.

Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

☐ Claim(s) \_\_\_\_\_ is/are allowed.

☒ Claim(s) 1-32 is/are rejected.

☐ Claim(s) \_\_\_\_\_ is/are objected to.

☐ Claims \_\_\_\_\_ are subject to restriction or election requirement.

## Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on \_\_\_\_\_ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some\* ☐ None of the CERTIFIED copies of the priority documents have been  
☐ received.

☐ received in Application No. (Series Code/Serial Number) \_\_\_\_\_.

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_.

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

## Attachment(s)

☒ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). \_\_\_\_\_

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

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## **DETAILED ACTION**

### **Claim Rejections**

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hulvey (USPN 5940137) in view of Banker et al. (USPN 5497187).

Regarding claims 1 and 17, Hulvey teaches about encoding digital data symbols onto analog video signal for on screen display, and a receiver that receives the analog video signal and convert it to an appropriate signal for viewing. Hulvey teaches about the recovery of digital data from an analog video signal in the context of clock synchronization. See column 1, lines 9-30. Hulvey also teaches about the demodulator (52) along with gates (54) that receive four digital video samples in the analog signal. See column 6, lines 58-65 and Fig 6. However, in the process of receiving and sampling analog video signals, Hulvey does not teach in terms of a predetermined data pattern. Banker on the other hand teaches about demodulating process that determine the presence of video data in terms of predetermined data pattern.

Therefore, it would have been obvious to one skilled in the art at the time the invention was made to modify Hulvey's video system to include Banker's predetermined data pattern. One would have been motivated in view of the suggestion in Banker that video data determination in

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terms of predetermined data pattern is equivalent to obtaining the desired video signal with predetermined data pattern. The use of predetermined data pattern helps the process of receiving video data and also helps data control circuitry as taught by Banker.

Regarding claims 2-3, and 18-19, Banker teaches about equalizing pulses appearing in synch with horizontal pulses. See column 4, lines 59-65. Banker also teaches about the circuitry determining the location of the vertical blanking interval and forms of data. See column 3, lines 60-67

Regarding claims 4, 7, 20 and 23, Banker teaches about screen display control circuit (406). See column 19, lines 20-25.

Regarding claims 5-6, 8-9, 21-22, and 24-25, Banker teaches about matching of predetermined number of data samples in connection with a data shifter (464), and qualification circuit (461) See column 21, lines 52-64, and see Fig 4b. Furthermore, Banker teaches about an analog circuitry (203) with cut-off phase, and also teaches about a microprocessor (212) that generates timing signals at a certain rate in order to determine start and stop locations of video data. See column 14, lines 66, column 15, lines 1-14 and Fig 2. Furthermore Banker teaches about sync r recognizer and its output signals relative to horizontal and vertical Sync. See column 21, lines 2-14.

Regarding claims 10-11 and 26-27, Banker teaches about control circuit (402) which recovers data by determining the analog signal level through dependence of a predetermined line. See column 23, lines 17-27.

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Regarding claims 12 and 28, Banker teaches about video data , and data clock providing sampling frequency. See column 18, lines 63-67.

Regarding claims 13-14 and 29-30, Banker teaches about horizontal blanking interval in terms of horizontal pulse. See Fig 6(a).

Regarding claims 15-16 and 31-32, Banker teaches about vertical blanking interval in terms of equalizing pulses. See Fig (5a).

### **Conclusion**

2. The prior art made of record and not relied upon is considered to applicant's disclosure.

The following are cites for further reference.

U.S. Pat No. 5, 995,705 to Lang

U.S. Pat No. 6,180,042 to Adams et al.

U.S. Pat No. 6,150,810 to Roybal

U.S. Pat No. 6,131,813 to Knighton et al.

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Any inquiry concerning this communication or earlier communication from the examiner should be directed to **Abbas Abduselam** whose telephone number is **(703) 305-8591**. The examiner can normally be reached on Monday through Friday (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached at (703) 305-4709.

**Any response to this actions should be mailed to :**

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

**(703) 872-9314**

Hand-delivered responses should be brought to Crystal park II, 2121 Crystal drive ,  
Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology center 2600 Customer service Office whose telephone number is (703) 306-0377

Application/Control Number: 09/442,868

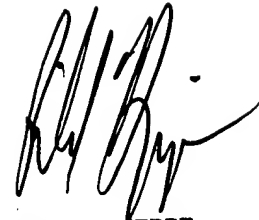
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Abbas Abdulsalam

Examiner

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A handwritten signature in black ink, appearing to read 'Richard Hjerpe', is positioned above the printed name.

**RICHARD HJERPE**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 2600**